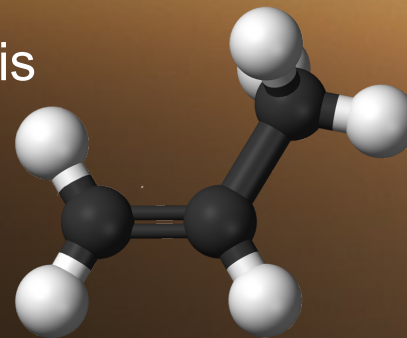
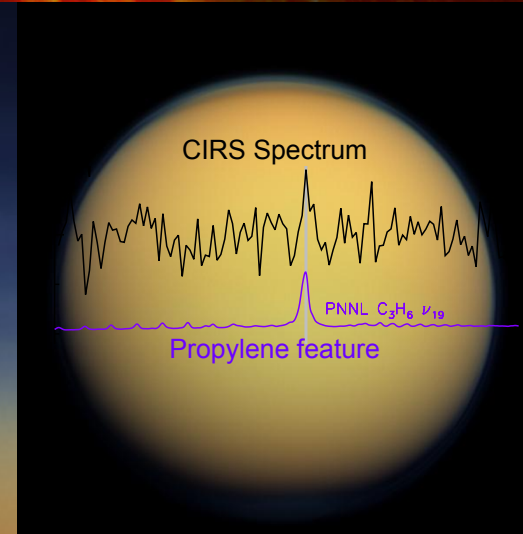


Discovery of propylene in Titan's upper atmosphere with Cassini CIRS

- Cassini's Composite Infrared Spectrometer (CIRS) Team detected a new molecule, **propylene (propene)**, in Titan's upper atmosphere.
- Significance: First definitive identification of propylene gas in a planetary atmosphere outside Earth.
- Propylene is an important raw material for our chemical industry. It is used to make polypropylene, a durable plastic that is molded into many commercial common items, including food storage containers.



Detection of Propene [Propylene] in Titan's Stratosphere
C. Nixon, D. Jennings, B. Bézard, S. Vinatier, N. Teanby, K. Sung, T. Ansty, P. Irwin, N. Gorius, V. Cottini, A. Coustenis, F. M. Flasar. *Astroph.J.Lett.* 776, 2013